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PATENT 3811-0140P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Han Sol CHO et al.

Conf.: 3498

Appl. No.:

10/807,338

Group: Unknown

Filed:

March 24, 2004

Examiner: UNKNOWN

For:

THE ENHANCEMENT OF OPTICAL AND

MECHANICAL PROPERTIES IN A POLYMERIC OPTICAL ELEMENT BY ANNEALING UNDER A

COMPRESSED GAS

INFORMATION DISCLOSURE STATEMENT
(SUBMISSION AFTER FILING OF AN APPLICATION
BUT BEFORE FINAL REJECTION OR NOTICE OF ALLOWANCE
OR CONCURRENTLY WITH A RULE 1.114 RCE APPLICATION)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

August 27, 2004

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-1449(s), attached hereto.

II. COPIES (check at least one box)

- a. This application was filed before June 30, 2003.

 Accordingly, submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- b.

 This application was filed on or after June 30, 2003. Accordingly, copies of cited U.S. patents and patent application publications therefore are not included. Copies of foreign

included.

c. Some or all of the documents listed on the PTO1449 are not enclosed because they were cited in
the International Search Report and copies should
already be in the PTO file. If copies are needed,
please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

a. DOCUMENTS IN THE ENGLISH LANGUAGE

The patents, publications, or other information listed on the attached PTO 1449 are in the English language and therefore, do not require a statement of relevancy.

patent documents and non-patent literature are

b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE

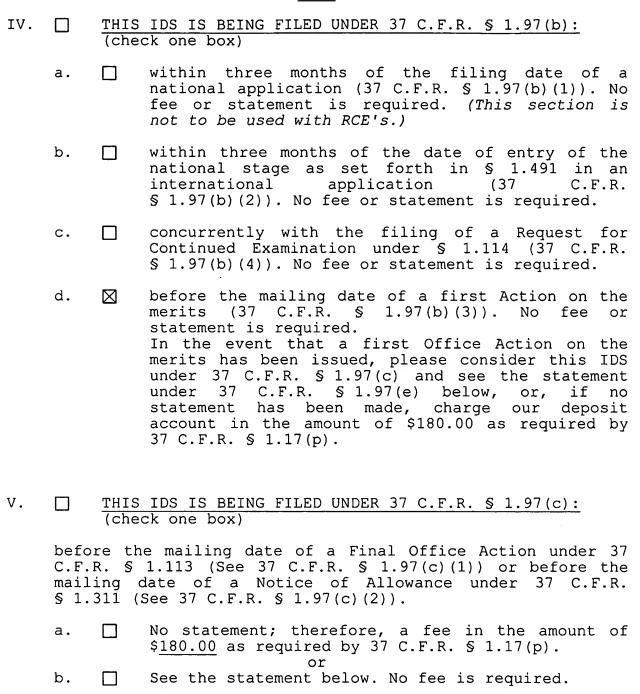
A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

C. ENGLISH LANGUAGE SEARCH REPORT

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(III)(A)(3).

The following additional information is provided for the Examiner's consideration.

FEES



VI. STATEMENT UNDER 37 C.F.R. § 1.97(e) (check only one box) The undersigned hereby states that each item of information contained in the IDS was a. П first cited in any communication from a foreign Office in а counterpart foreign application not more than 30 days prior to the filing of this IDS; or each item of information contained in the IDS was b. first cited in any communication from a foreign Patent Office in a counterpart application not more than three months prior to the filing of this IDS; or no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and, the knowledge of the person signing the certification after making reasonable inquiry, no IDS was known to any individual of designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of the IDS. Some of the items of information were cited in a d. communication from a foreign Patent Office. As to information, the undersigned states that each item of information contained in the IDS was first cited in a communication from a foreign Patent Office in a counterpart application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application and, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this

statement.

VII.	PAYMENT	OF	FEES	(check	one	box)	į
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_	F.R.	§	1.	17 (p)	is	end	close	ed	for	the	above-ider	ntif	ied

- Please charge Deposit Account No. 02-2448 in the amount required by 37 C.F.R. § 1.17(p) for the above-indicated fee. A triplicate copy of this paper is attached.
- No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 02-2448.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

P.O. Box 747

JTE/JAK/adt 3811-0140P

Falls Church, VA 22040-0747

(703) 205-8000

Attachment(s):

☐ PTO-1449

□ Documents

Foreign Search Report

□ Fee

□ Other:

(Rev. 05/14/2004)

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Form PTO-1449

INFORMATION DESCRIPTION IN AN APPLICATION

(Use several sheets if necessary)

TTY.	DOCKET NO.	
381	1-0140P	

APPLICATION NO. 10/807,338

APPLICANT

Han Sol CHO et al.

FILING DATE
March 24, 2004

3498

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	Kind	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	US						
	US						
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FOREIGN PATENT DOCUMENTS

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Office	DOCUMENT NUMBER	Kind	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
	NUMBER					ļ	YES	NO
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OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.

"The effect of carbonyl group on sorption of CO2 in glassy polymers", Shieh et al., J. of Supercritical Fluids 25 (2003) pages 261-268.

"Glass Transitions in Polymer/CO2 Mixtures at Elevated Pressures", Journal of Polymer Science: Part B: Polymer Physics, Vol. 29, pp. 631-633 (1991) R.G. Wissinger and M.E. Paulaitis.

"High Temperature Resistant Graded-Index Polymer Optical Fiber", by Sato et al., Journal of Lightwave Technology, Vol. 18, No. 12, December 2000.

"Plastic Optical Fibers: An Introduction to Their Technological Processes and Applications", Zubia et al., Optical Fiber Technology 7, pp. 101-140 (2001).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DESCAP SURE CITATION

ATTY.	DOCKET	NO.
381	1-01	40P

APPLICATION NO. 10/807,338

APPLICANT

Han Sol CHO et al. IN AN APPLICATION (Use several sheets if necessary) FILING DATE March 24, 2004 3498 U.S. PATENT DOCUMENTS EXAMINER INITIAL FILING DATE IF APPROPRIATE DOCUMENT NUMBER Kind DATE NAME US FOREIGN PATENT DOCUMENTS TRANSLATION Office DOCUMENT Kind DATE COUNTRY SUB NUMBER YES NO OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. "Liquid Crystal Devices: Physics and Applications", V.G. Chigrinov, pages 274-278, Artech House (April 1999). Rheology: Principles, Measurements and Applications, Ch. W. Macosko, John Wiley and Sons (1994), pp. 408-411. "Polymers for waveguide and Integrated Optics: Technology and Applications", by R.A. Horank, Marcel Dekker (1992), MICROPTICAL GRATING ELEMENTS, pp. 187-191. Portions of "Polymers for Photonic Applications I. Nonlinear Optical and Electroluminiscence Polymers", by C. Bosshard et al., Springer Verlag (March 2002),

EXAMINER

pp. 18, 60, and 110.

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.